

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Victor Ivan Chormenky, *et al.*

Appl. No. Not Yet Assigned

Filed: On a date herewith

For: **Device for Delivering Localized X-Ray
Radiation and Method of Manufacture**

Art Unit:

Examiner:

Atty. Docket: P775 CON 3

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examining the application on the merits, please amend the claims as follows:

In the Claims:

Please replace claims 31, 34, 37, 38, 39 and 41 as follows:

31. A transmissive device for insertion into a patient's cardiovascular system, comprising:
- a catheter with a lumen, the catheter having a proximal portion and a distal portion;
 - an x-ray source at the catheter distal portion, the x-ray source having a vacuum chamber defined by a chamber wall and containing an anode and cathode for generating an electrical field, the vacuum chamber having a diameter less than 3 mm;
 - an electrically insulating material positioned between the vacuum chamber wall and the anode at joints of the vacuum chamber wall; and
 - a flexible coaxial cable in the lumen and operably coupled to the x-ray source, the coaxial cable having an outer diameter of three millimeters or less wherein the cable is capable of conducting a voltage greater than or equal to 10 kilovolts without electrical discharge.

34. The device of claim 31 wherein the x-ray source requires a voltage of greater than or equal to 10 kilovolts

37. The device of claim 31 wherein the device is sized to be inserted into a blood vessel of the body and the device has a maximum diameter of 3.0 millimeters.

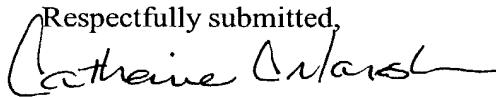
38. The device of claim 31 wherein the device is sized to be inserted into a blood vessel of the body and the device has a maximum diameter of 2.5 millimeters.

39. The device of claim 31 wherein the device is sized to be inserted into a blood vessel of the body and the device has a maximum diameter of 1.5 millimeters.

41. A device for insertion into a patient's cardiovascular system, comprising:
a catheter with a lumen the catheter having a proximal portion and a distal portion an x-ray source at the catheter distal portion, the x-ray source comprising a composite structure comprising a housing that joins a cathode and an anode, wherein the housing is composed of boron nitride and has a diameter less than 3 mm; and
a flexible coaxial cable in the lumen and operably coupled to the x-ray source.

Dated this 20th day of November 2001.

Respectfully submitted,



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